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(71) **Applicant (for all designated States except US): KONINKLIJKE PHILIPS ELECTRONICS, N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) **Inventors; and**

(75) **Inventors/Applicants (for US only): SCHAFFER, J., David** [US/US]; 595 Miner Road, Cleveland, OH 44143 (US). **SIMPSON, Mark, R.** [US/US]; 595 Miner Road, Cleveland, OH 44143 (US).

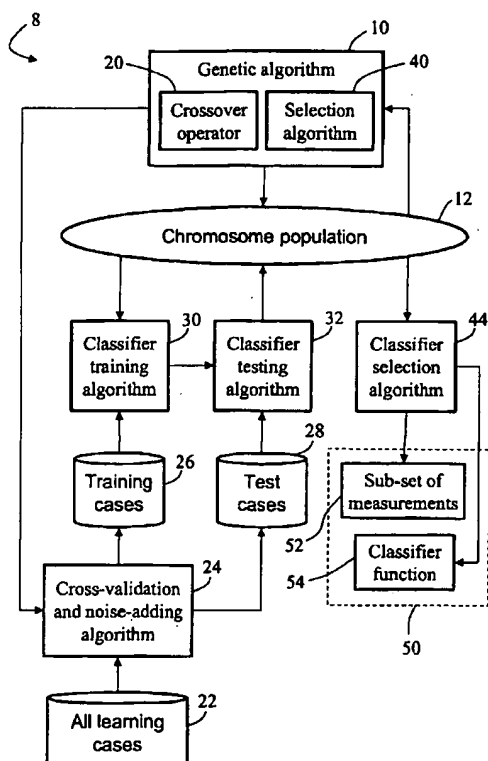
(74) **Common Representative: KONINKLIJKE PHILIPS ELECTRONICS, N.V.; c/o LUNDIN, Thomas, M.,** 595 Miner Road, Cleveland, OH 44143 (US).

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- (54) Title:** GENETIC ALGORITHMS FOR OPTIMIZATION OF GENOMICS-BASED MEDICAL DIAGNOSTIC TESTS



**(57) Abstract:** In a genetic optimization method, the genes of a chromosome population are computationally genetically evolved. The evolving includes evolving a number of expressed genes in each chromosome and employing a fitness criterion evaluated without reference to unexpressed genes of each chromosome. An optimized chromosome produced by the genetic evolving is selected.



**Declarations under Rule 4.17:**

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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